

Work Order ID 80764

80764

Page 1

February-28-12 1:20:20 PM

Item ID: D6101-001 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Saddle Billet
Start Date: 28/02/2012 Start Qty: 50.00 ***50*** Cust Item ID:
Required Date: 13/03/2012 Req'd Qty: 50.00 ***50*** Customer:
Reference:

Approvals: Process Plan: MCS Date: 12/02/28 Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| D6101 | Rev B |

100 PURCHASING 0.00
100
Purchasing Memo 0.00
Purchasing Issue P/O: 14302
a) Description: Aluminum billet
b) 6.00" x 6.250" x 2.00" thick
c) Tolerance on length are +0.030"/-0.000" \pm +/-0.008"
d) Grain direction along 6.00" length
e) Material: 7075-T7351 (QQ-A-250/12)
f) Material certification required

110 Receive & Inspect for Damage & Mat'l Certs 0.00
110
Packaging Memo 0.00
Packaging Ensure material certification is attached

12-02-29

12/3/12 (50)

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
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NOTE: Date & initial all entries

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

Picklist Print

February-28-12 1:20:24 PM

Page 1

Work Order ID: 80764

80764

Parent Item: D6101-001

D6101-001

Parent Item Name: Saddle Billet

Start Date: 28/02/2012

Required Date: 13/03/2012

Start Qty: 50.00

Required Qty: 50.00

Comments: IPP B: 01.05.04New IssueEC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

| | | | | | | | | | | | | | |
|------------|--|-----------|----|--|--|-----|------|--------|---|----|--|--|--|
| D6101-001P | | Purchased | No | | | 110 | Each | 0.0000 | 1 | 50 | | | |
|------------|--|-----------|----|--|--|-----|------|--------|---|----|--|--|--|

D6101-001P

7075-T7351 2X6X6.25

**

01/23/12 (50)

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

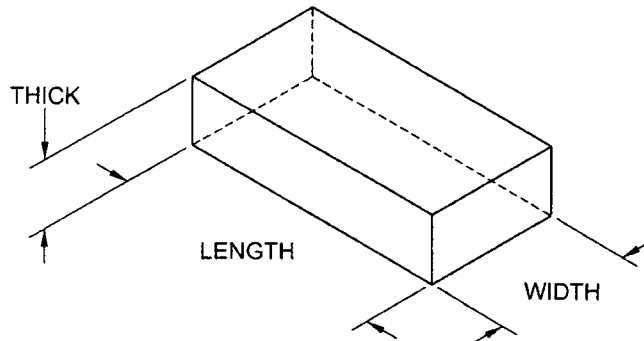
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|--------------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

SPECIFICATION CONTROL DRAWING



80764 MCT
12/02/28

PURCHASE MATERIAL ACCORDING TO THE FOLLOWING TABLE. SPECIFY ALLOY, LENGTH x WIDTH x THICK (+0.030/-0.000), AND GRAIN DIRECTION AS SHOWN.

TOLERANCES ON ALL DIMENSIONS ARE +0.030/-0.000.

ALL DIMENSIONS ARE IN INCHES.

B ACCEPTABLE SPECIFICATIONS FOR 7075-T7351 ALUMINUM ARE AMS-QQ-A-250/12, QQ-A-250/12, OR ASTM B209

| Part No. | Alloy | Length | Width | Thick | Grain Direction |
|-----------|--------------------------|--------|-------|-------|--------------------|
| D6101-001 | 7075-T7351 (QQ-A-250/12) | 6.000 | 6.250 | 2.000 | Along 6.000 Length |
| D6101-003 | 7075-T7351 (QQ-A-250/12) | 7.875 | 6.250 | 2.000 | Along 7.875 Length |
| D6101-005 | 7075-T7351 (QQ-A-250/12) | 5.000 | 8.250 | 2.500 | Along 5.000 Length |
| D6101-007 | 7075-T7351 (QQ-A-250/12) | 7.750 | 8.250 | 2.500 | Along 7.750 Length |
| D6101-009 | 7075-T7351 (QQ-A-250/12) | 8.700 | 8.250 | 2.500 | Along 8.700 Length |
| D6101-011 | 7075-T7351 (QQ-A-250/12) | 9.700 | 8.250 | 2.500 | Along 9.700 Length |
| D6101-013 | 7075-T7351 (QQ-A-250/12) | 10.100 | 8.250 | 2.500 | Along 10.10 Length |
| D6101-015 | 7075-T7351 (QQ-A-250/12) | 9.450 | 6.250 | 2.500 | Along 9.450 Length |
| D6101-017 | 7075-T7351 (QQ-A-250/12) | 6.350 | 6.250 | 2.250 | Along 6.350 Length |
| | | | | | |
| | | | | | |

RELEASED
09/07/15/W

| | | | |
|------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| B | ADDED D6101-015/-017, ADD ASTM B209 | RF | 09.04.23 |
| A | NEW ISSUE | CP | 01.03.30 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | CP | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | RF | | |
| CHECKED | <i>[Signature]</i> | DRAWING NO. | REV. B |
| MFG. APPR. | <i>[Signature]</i> | D6101 | SHEET 1 OF 1 |
| APPROVED | <i>[Signature]</i> | TITLE | SCALE |
| DE APPR. | <i>[Signature]</i> | SADDLE BILLET, 7075 | NTS |
| DATE | 09.04.23 | <small>COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |

Dart Aerospace Ltd

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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NOTE: Date & initial all entries

B I L L O F L A D I N G

No: PEC 756260

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 9057389033

Ship Date 07Mar12 at 17:59 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-424965- 1 Your PO # 16302
ALUMINUM PLATE 7075-T7351 USI
2.00" THICK X 6.2500" X 7.8700"
GRAIN DIRECTION TOWARD 7.875"

| Heat Number | Tag No | Quantity | PCS | Wt LBS |
|-------------|--------|-----------|-----|--------|
| 346081 | 518400 | 17.08 SFT | 50 | 498 |

2) Our Order PEC-424965- 2 Your PO # 16302
ALUMINUM PLATE 7075-T7351 USI
2.00" THICK X 6.0000" X 6.2500"

| Heat Number | Tag No | Quantity | PCS | Wt LBS |
|-------------|--------|-----------|-----|--------|
| 346081 | 518401 | 13.02 SFT | 50 | 380 |

| TOTAL: | Tags | PCS | LBS |
|--------|------|-----|-----|
| | 2 | 100 | 878 |

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL (1,2) 2 SKIDS GW. 928 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

James H Baber

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

[Signature]

Malcolm Murphy
Director of Manufacturing Davenport Works

[Signature]

Terrence Thom
Quality Assurance Manager

1331760 0
Ship Date B.L. No. Invoice No. Alcoa No. Item
2012-01-17 6682371 00000 1000346655-2 DP-46655-
P.O. No./Govt Contract No. Customer Alcoa Item
5400125649 C&B G041043515R15

Page 1 of 2

Ship To: COPPER & BRASS SALES INC
WALLINGFORD BRANCH
5 STERLING DR
WALLINGFORD 06492 CT

Item Description
2.0 IN TK (+.060 -.060) X 60.5 IN W (+.375 -
0.000) X 144.5 IN LN (+.5 -0.0) (N) A/T 7075-
T7351 RECTANGLE MILL FINISH, USI 3MM DEAD ZONE REQ'D BOTH SIDES,
SAWED ALFLR01031. EXC_MRK AMS-QQ-A-250/12 IS 2007 EXC_MRK AMS-STD-
2154 IS 2010 AMS4078 REV J EXC_MRK ASTM B209 REV
10 EXC_MRK BSS7055 REV A EXC_MRK CMMPO25 REV U
EXC_MRK CAMPS9101 REV B EXC_MRK MMS159 REV P
EXC_MRK PS21211 REV L ((MARKED)) KRAFT PAPER
INTERLEAVED MAX
GROSS SKID WGT: 5000 LB QUAN TOL +/-30 %
USI CL A 3 MM CQR 0201475 REV 14 CUST REQ 12-01-
18 *** W/E 12-01-21 ***

| Num | Package Ticket | Lot | Weight | Quantity | UOM | Inspector Clock Numbers |
|-----|----------------|--------|--------|----------|-----|-------------------------|
| 1 | 372021 | 346081 | 3538 | 2 | PC | 47114 |

Notes for CQR: 0201475.14
PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ- A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PROD UCT
PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.
THIS MATERIAL HAS BEEN ULTRASONICALLY INSPECTED FULLY IMMERSION - TYPE I.
PRODUCT PRODUCED TO THE REQUIREMENTS OF MIL-STD-2154 ALSO MEET THE REQUIREMENTS OF AMS-STD-2154. PRODUCT PRODUCED TO THE
REQUIREMENTS OF AMS-STD-2154 ALSO MEET THE REQUIREMENTS OF MIL-STD-2154.
THIS MATERIAL HAS BEEN ULTRASONICALLY INSPECTED FULLY IMMERSION - TYPE I.

CQR: 0201475.14 -Specification Limits

| Temp | Dir | UTS | TYS | EL4D |
|-------|--------------|------|------|------|
| T7351 | Long Transv. | KSI | KSI | PCT |
| | Max | 68.9 | | |
| | Min | 69.0 | 57.0 | 6 |

T7351 Elec. Cond. (EC) % MIN 38.0 PCT

ThyssenKrupp Materials NA, Inc.
Copper and Brass Sales Div sold to:
CUSTOMER: ThyssenKrupp Materials - WA Ecac
YOUR PO#: PEC-237319
CUST ORDER#: 1401098277
QTY: 50PCS
BY: PS DATE: 3/1/12

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401728619
Part: PO: PEC - 237319
Wgt: 497.937 LB Date: 03/02/2012

James H. Baker

CERTIFIED INSPECTION REPORT

Alcoa Inc.

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

[Signature]

Malcolm Murphy
Director of Manufacturing Davenport Works

[Signature]

Terrence Thom
Quality Assurance Manager

| | | | |
|----------------------------|---------------------|---------------|-------------------------|
| 1331760 | 0 | | |
| Ship Date | B.L. No. | Invoice No. | Alcoa No. Item |
| 2012-01-17 | 6682371 | 00000 | 1000346655-2 DP-46655-2 |
| P.O. No./Govt Contract No. | Customer Alcoa Item | | |
| 5400125649 | C&B | G041043515R15 | |

Page 2 of 2

CQR: 0201475.14 -Specification Limits (cont.)

| Chemical Composition | | SI | FE | CU | MN | MG | CR | ZN | TI | Other Each | Other Total |
|------------------------------------------------------------|--------------|------|------|------|------|-----|------|-----|------|------------|-------------|
| Alloy 7075 | Max | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.15 |
| Lot: 346081 | Min | | | 1.2 | | 2.1 | 0.18 | 5.1 | | | |
| - Mechanical, Physical, Metallography, Quantometer Results | | | | | | | | | | | |
| Temp | Dir | No-> | UTS | TYS | EL4D | | | | | | |
| T7351 | Long Transv. | Test | KSI | KSI | PCT | | | | | | |
| | | 3 | 73.2 | 62.6 | 10.9 | | | | | | |
| | | | 73.4 | 62.6 | 10.6 | | | | | | |
| | | | 73.4 | 58.3 | 11 | | | | | | |

T7351 Elect Cond %IACS 40.9 41.3 41.0 PCT

| Cast Number | Chemical - OES | SI | FE | CU | MN | MG | CR | ZN | TI |
|-------------|----------------|------|------|-----|------|-----|------|-----|------|
| H9420126 | Actuals | 0.06 | 0.27 | 1.6 | 0.02 | 2.5 | 0.19 | 5.7 | 0.03 |

This material was melted in the United States or a Qualifying Country (REF DFARS 225.872.1(a)); it was manufactured in the United States

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2401728616
Part: PO: PEC - 237319
Wgt: 379.622 LB Date: 03/02/2012

James H. Baker